

VINCENT BIO BEDIAKO

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Academic Qualifications

Doctor of Philosophy (Joint Demography and Sociology) **Fall 2023- Spring 2027**
University of Pennsylvania, Philadelphia, USA

Master of Arts (Statistics and Data Science) **Fall 2023 – Spring 2026**
University of Pennsylvania, Philadelphia, USA

Master of Philosophy (Population and Health) **2018- 2021**
University of Cape Coast, Cape Coast, Ghana

***Thesis:** A multilevel and survival analysis of the ecological factors associated with under-five mortality in Ghana.*

Bachelor of Arts Population and Health **2013 – 2017**
(Second class honours-upper division)
University of Cape Coast, Cape Coast, Ghana

***Thesis:** “Health providers’ perspective on adolescents’ utilisation of sexual and reproductive health services in the Cape Coast Metropolis”*

Work Experience

- **Research Assistant** **November 2023 – Present**
Project: “Health, Ecosystems, and Agriculture for Resilient Thriving Societies (HEARTH) Resilient Ecosystem and Sustainable Transformation of Rural Economies (RESTORE) Activity”.
Awarding body: United States Agency for International Development’s (USAID)
Institution: University of Pennsylvania
Principal Investigators: Heather Huntington, Kimberlee Chang, Mike Duthie, Alexa Aziz

Responsibilities and Duties

- Conducting literature reviews to support research on health, ecosystems, and agriculture
- Designing and testing research instruments like surveys, questionnaires, or interview guides to ensure they effectively capture data
- Collecting and analyzing data related to environmental and agricultural practices and their impacts on health and resilience
- Assisting in the development and implementation of field studies or surveys to gather primary data.

- Collaborating with team members to prepare reports and publish findings in academic journals.

- **Health Educator** **August 2021 – August 2023**
Ghana Health Service

Responsibilities and Duties

- Conducting assessments and surveys to determine health education needs
- Collaborating with health specialists and stakeholders to set goals and achieve sustainable results
- Developing plans and policies toward achieving health education objectives and monitoring the progress
- Designing and distributing health education materials and aids, including pamphlets, notices, video, and audio clips, images, and posters
- Promoting health education initiatives via press releases, media campaigns, social media platforms, and websites

- **District Census Officer (Part-time)** **Jan 2020 – July 2021**
Ghana Statistical Service

Responsibilities and Duties

- Executing and reporting on the 2021 PHC
- Developing a comprehensive implementation plan for the 2021 PHC exercise in synch with the national and regional implementation plan
- Providing administrative and technical direction of the census operations
- Directing and managing census working teams
- Controlling and managing budget during the planning and implementation of the 2021 PHC
- Managing the schedules for the implementation of the 2021 PHC

- **Graduate Assistant (Volunteering)** **2019- 2020**
Department of Population and Health, University of Cape Coast

Responsibilities and Duties

- Assisting with classroom teaching
- Grading undergraduate work
- Administering exams
- Assisting supervisors with their research as requested

- **Teaching and Research Assistant (National Service)** **2017 – 2018**
Department of Population and Health, University of Cape Coast

Responsibilities and Duties

- Assisting with classroom teaching
- Grading undergraduate work
- Administering exams
- Assisting supervisors with their research as requested

Grants

1. **Project Title:** *Alternative implementation strategies for the administration of the fourth vaccine dose of the RTS, S in the Cape Coast Metropolis (Principal Investigator)*
Awarding Body: World Health Organisation & African Regional Training Centre
Project Reference Number: UGSPH/CIRT-M/001

2. **Project Title:** *Development of user-friendly versions of the Assessment Report of the SISTAS' Club Initiative (Consultant)*
Awarding Body: UNFPA & University of Cape Coast

Short Course

Social/Behavioral Research Course (CITI Program) University of Pennsylvania, Pennsylvania, USA	Jan 2024
REDCap 101 OCR University of Pennsylvania, Pennsylvania, USA	Jan 2024
IDEM 187: Topics in Digital and Computational Demography course The Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany	Dec 2023
Principles of Implementation Research (PIR) University of Ghana (School of Public Health)-African Regional Training Centre	Feb 2022

Online Academic Accomplishments

Spatial Data Science: The New Frontier in Analytics ESRI (MOOC)	December 2020
Going Places with Spatial Analysis ESRI (MOOC)	September 2020
Fundamentals of GIS University of California, Davis (Coursera)	August 2020

Research Activities

✓ Reviewer: <i>Journal SAGE Open Medicine</i>	September 2021 – Present
✓ Reviewer: <i>BMC Pregnancy and Childbirth</i>	September 2021 – Present
✓ Reviewer: <i>PLOS One</i>	September 2021 – Present
✓ Reviewer: <i>BMJ Open</i>	June 2022 – Present

✓ Reviewer: <i>Springer Nature</i>	August 2022 – Present
✓ Reviewer: <i>BMC Public Health</i>	October 2022 – Present
✓ Reviewer: <i>BMC Women's Health</i>	October 2022 – Present

Publications

1. Okyere, J., **Bediako, V.B.**, Ackah, J.A. et al. RTS,S/AS01E vaccine defaults in Ghana: a qualitative exploration of the perspectives of defaulters and frontline health service providers. *Malar J* 22, 260 (2023). <https://doi.org/10.1186/s12936-023-04690-4>
2. Ackah JA, Ayerakwah PA, Boakye K, Owusu BA, **Bediako VB**, Gyesei M, et al. (2022) Circumcising daughters in Nigeria: To what extent does education influence mothers' FGM/C continuation attitudes? *PLOS Glob Public Health* 2(11): e0000660. <https://doi.org/10.1371/journal.pgph.0000660>
3. Dickson, K. S., Okyere, J., Ahinkorah, B. O., Seidu, A.-A., Salihu, T., **Bediako, V.**, Owusu, B. A., Budu, E., Agbemavi, W., Edjah, J. O., & Darteh, E. K. M. (2022). Skilled antenatal care services utilisation in sub-Saharan Africa: a pooled analysis of demographic and health surveys from 32 countries. *BMC Pregnancy and Childbirth*, 22(1). <https://doi.org/10.1186/s12884-022-05137-5>
4. **Bediako VB**, Boateng ENK, Owusu BA, Dickson KS (2021) Multilevel geospatial analysis of factors associated with unskilled birth attendance in Ghana. *PLoS ONE* 16(6): e0253603. <https://doi.org/10.1371/journal.pone.0253603>
5. Appiah F, Owusu BA, Ackah JA, Ayerakwah, PA, **Bediako VB** & Ameyaw EK. Individual and community-level factors associated with home birth: a mixed-effects regression analysis of 2017–2018 Benin demographic and health survey. *BMC Pregnancy Childbirth* 21, 547 (2021). <https://doi.org/10.1186/s12884-021-04014-x>

Research Experience

Research Assistant

A prospective study of adolescent Girls Beneficiaries of the United Nations Joint Programme on Empowering Adolescent Girls in Ghana (2021)

UNFPA/UNICEF

Research Assistant

UNFPA/UNICEF Baseline Study on Comprehensive Sexuality Education for Young People on Quality Sexual and Reproductive Health and Rights (2019)

University of Cape Coast

Seminars and Workshops

System-thinking for Migration in West Africa (March-April 2021)

Virtual Workshop

(West African Science Service Centre on Climate Change and Adapted Land Use)

Population, Poverty, and Inequality Research Conference (December 2020)

Virtual Conference

ASAP Climate Informed Demography Workshop (December 2020)

Workshop for District Census Officers on the 2021 Population and Housing Census (2020)

Ghana Statistical Service

Scholarship/Fellowship

- **Fishman Graduate Fellow 2023-2024**
University of Pennsylvania
School of Arts and Sciences
- **Benjamin Franklin Fellowship 2023-2024**
University of Pennsylvania
School of Arts and Sciences

Professional Membership

- 2020 August to Present, International Union for the Scientific Study of Population (IUSSP). **Membership No:** 46252
- 2020 September to Present, Population-Environment Research Network (PERN)
- 2022 April to Present, TDR Global

Awards

- **Grant: (USD 750.00)**
Awarding Body: School of Graduate Studies, University of Cape Coast
Purpose: Small grant for thesis writing on “*A multilevel and survival analysis of the ecological factors associated with under-five mortality in Ghana.*”
- **Scholarship (USD 720.00)**
Awarding Body: Ghana Scholarship secretariat
Purpose: Full payment of second-year tuition fees
- **Scholarship**
Awarding Body: Ghana Library Authority and Commonwealth of Learning

Purpose: Scholarship to study professional short courses online at Coursera.

Statistical Modelling

- Linear and Binary Logistic Regression
- Geospatial Modelling
- Cox Proportional Hazard Modelling
- Multilevel Modelling

IT Skills

- **Infographic Design**
- **Data Visualisation**

Referees

Upon request.